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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/627,041	07/25/2003	Fay M. Sommer	5898-000210	3729
27572	7590	10/01/2004	EXAMINER	
HARNES, DICKEY & PIERCE, P.L.C.			SHAH, MANISH S	
P.O. BOX 828			ART UNIT	
BLOOMFIELD HILLS, MI 48303			PAPER NUMBER	
			2853	

DATE MAILED: 10/01/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

10/627,041

Applicant(s)

SOMMER ET AL.

Examiner

Manish S. Shah

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☐ Responsive to communication(s) filed on ____.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-19 is/are pending in the application.
- 4a) Of the above claim(s) ____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) ____ is/are allowed.
- 6) ☒ Claim(s) 1-19 is/are rejected.
- 7) ☐ Claim(s) ____ is/are objected to.
- 8) ☐ Claim(s) ____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on ____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
 - ☐ Certified copies of the priority documents have been received in Application No. ____.
 - ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- ☒ Notice of References Cited (PTO-892)
- ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- ☒ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date 12/2/03; 3/11/04
- ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date. ____.
- ☐ Notice of Informal Patent Application (PTO-152)
- ☐ Other: ____.

DETAILED ACTION

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

1. Claims 1, 3-5 & 14-19 are rejected under 35 U.S.C. 103(a) as being unpatentable over Smith (# US 6712449).

Smith discloses a four color ink set including a cyan ink, a magenta ink, a yellow ink and a black ink, wherein all the inks are heat set or cold set inks (see Abstract; column: 7, line: 40-56). They also disclose that the ink includes one or more fluorescent material (column: 4, line: 5-65; column: 6, line: 45-67; column: 8, line: 20-35). They also disclose the CIELAB colorimetric aim value of cyan, magenta, yellow and black ink L^* , a^* and b^* (see Table: 2a).

Smith differs from the claim of the present invention in that:

(1) A cyan ink had $L^* = 54$, $a^* = -41$ and $b^* = -45$, within a $\Delta E^*_{ab} \leq 8$.

(2) A magenta ink had $L^* = 52$, $a^* = 79$ and $b^* = -9$, within a $\Delta E^*_{ab} \leq 8$.

(3) A yellow ink had $L^* = 90$, $a^* = -7$ and $b^* = 102$, within a $\Delta E^*_{ab} \leq 10$.

It would have been obvious to one having ordinary skill in the art at the time of invention was made to incorporate the CIELAB colorimetric aim value of cyan ink had L^*

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= 54, $a^* = -41$ and $b^* = -45$, within a $\Delta E^*_{ab} \leq 8$; a magenta ink had $L^* = 52$, $a^* = 79$ and $b^* = -9$, within a $\Delta E^*_{ab} \leq 8$; and a yellow ink had $L^* = 90$, $a^* = -7$ and $b^* = 102$, within a $\Delta E^*_{ab} \leq 10$, since it has been held that it is not inventive to discovering and optimum value or workable ranges by routine experimentation. *In re Aller*, 105 USPQ 233 (CCPA1955).

2. Claims 6-13 are rejected under 35 U.S.C. 103(a) as being unpatentable over Smith (# US 6712449).

Smith discloses a method of inkjet printing a color image including a four color ink set including a cyan ink, a magenta ink, a yellow ink and a black ink, wherein all the inks are heat set or cold set inks (see Abstract; column: 7, line: 40-56). They also disclose that the ink includes one or more fluorescent material (column: 4, line: 5-65; column: 6, line: 45-67; column: 8, line: 20-35). They also disclose the CIELAB colorimetric aim value of cyan, magenta, yellow and black ink L^* , a^* and b^* (see Table: 2a). They also discloses that the printing step includes sheet fed printing or web printing (column: 5, line: 20-55).

Smith differs from the claim of the present invention in that:

- (1) A cyan ink had $L^* = 54$, $a^* = -41$ and $b^* = -45$, within a $\Delta E^*_{ab} \leq 8$.
- (2) A magenta ink had $L^* = 52$, $a^* = 79$ and $b^* = -9$, within a $\Delta E^*_{ab} \leq 8$.
- (3) A yellow ink had $L^* = 90$, $a^* = -7$ and $b^* = 102$, within a $\Delta E^*_{ab} \leq 10$.

It would have been obvious to one having ordinary skill in the art at the time of invention was made to incorporate the CIELAB colorimetric aim value of cyan ink had $L^* = 54$, $a^* = -41$ and $b^* = -45$, within a $\Delta E^*_{ab} \leq 8$; a magenta ink had $L^* = 52$, $a^* = 79$ and $b^* = -9$, within a $\Delta E^*_{ab} \leq 8$; and a yellow ink had $L^* = 90$, $a^* = -7$ and $b^* = 102$, within a $\Delta E^*_{ab} \leq 10$, since it has been held that it is not inventive to discovering and optimum value or workable ranges by routine experimentation. *In re Aller*, 105 USPQ 233 (CCPA1955).

Conclusion

3. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.


(1) Kuota et al. (# US 2003/0116055 A1) discloses an ink set including cyan, magenta, yellow and black ink, wherein cyan ink has a CIELAB value $a^* = -50$ to -20 ; $b^* = -70$ to -40 ; magenta ink has $a^* = 60$ to 90 ; $b^* = -40$ to -10 ; yellow ink has $a^* = -30$ to 20 ; and $b^* = 70$ to 130 ([0047]).

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Manish S. Shah whose telephone number is (571) 272-2152. The examiner can normally be reached on 7:00am-3:30pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Stephen D. Meier can be reached on (571) 272-2149. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Manish S. Shah
Examiner
Art Unit 2853


MSS
9/27/04